

1/8

10 30 50
 AAGGGAACGTGTTTCTCCCTCGTTTGGTCATGGAGGCGCTGCCCTGCTAGCCGCGACA
 M E A L P L L A A T
 70 90 110
 ACTCCGGACCAACGGCCGCCACCGAAGGCTGCTTCTGCTGCCGCTACTGCTGTTCTCTGCTG
 T P D H G R H R R L L L L P L L L F L L L
 130 150 170
 CCGGCTGGAGCTGTGACGGGCTGGGAGACAGAGGAGAGGCCCCGGGACTCGCAAGAGGAG
 P A G A V Q G W E T E E R P R T R E E E
 190 210 230
 TGCCACTTCTACGCGGGTGGACAAGTGTACCGGGAGAGGCATCCCGGGTATCGGTCGCC
 C H F Y A G G Q V Y P G E A S R V S V A
 250 270 290
 GACCACTCCCTGCACCTAAGCAAAGCGAAGATTCCAAGCCAGCGCCCTACTGGGAAGGA
 D H S L H L S K A K I S K P A P Y W E G
 310 330 350
 ACAGCTGTGATCGATGGAGAATTTAAGGAGCTGAAGTTAACTGATTATCGTGGGAAATAC
 T A V I D G E F K E L K L T D Y R G K Y
 370 390 410
 TTGGTTTTCTTCTTCTACCCACTTGATTTACATTTGTGTGTCCAAGTAAATATCGCT
 L V F F F Y P L D F T F V C P T E I I A
 430 450 470
 TTTGGCGACAGACTTGAAGAATTCAGATCTATAAATACTGAAGTGGTAGCATGCTCTGTT
 F G D R L E E F R S I N T E V V A C S V
 490 510 530
 GATTCACAGTTTACCCATTTGGCCTGGATTAATACCCCTCGAAGACAAGGAGGACTTGGG
 D S Q F T H L A W I N T P R R Q G G L G
 550 570 590
 CCAATAAGGATTCACCTTCTTTTCTAGATTTGACCCATCAGATCTCAAAGGACTATGGTGTA
 P I R I P L L S D L T H Q I S K D Y G V
 610 630 650
 TACCTAGAGGACTCAGGCCACACTCTTAGAGGTCTCTTATTATTGATGACAAGGAATC
 Y L E D S G H T L R G L F I I D D K G I
 670 690 710
 CTAAGACAAATTACTCTGAATGATCTTCTGTGGGTAGATCAGTGGATGAGACACTACGT
 L R Q I T L N D L P V G R S V D E T L R
 730 750 770
 TTGGTTCAAGCATTCCAGTACTGACAAACACGGAGAAGTCTGCCCTGCTGGCTGGAAA
 L V Q A F Q Y T D K H G E V C P A G W K
 790 810 830
 CCTGGTAGTGAACAATAATCCAGATCCAGCTGGAAGCTGAAGTATTTGATAAACTG
 P G S E T I I P D P A G K L K Y F D K L
 850 870 890
 AATTGAGAAATACTTCTTCAAGTTATGATGCTTGAAAGTTCTCAATAAAGTTCACGGTTT
 N
 910
 CATTACCACAAAAAAA

FIG. 1

0911346-07401

Consensus #1
Majority

M	.....	10	20	30	
MASGN	-----				
1	MEALP-LL-AATTPDGRHRLLLPLLL				NKEF C
1	MSGN				NKEF A
1	MASGN				NKEF B
1	MAAAGRLLWSSVARHASISR				MER5
1	MSGN				MSP23

Consensus #1
Majority

	.....	40	50	60	
28	FLLPAGAVQGWETEERPTRTEEECHFYAGG				NKEF C
6	-				NKEF A
6	-				NKEF B
23	SISASTVL--RPVASRRTC--LTD				MER5
6	-				MSP23

Consensus #1
Majority

	.....	70	80	90	
58	QVYPGEASRVSVADHSLHLSK				NKEF C
6	-				NKEF A
6	-				NKEF B
43	ILWSASAQKGSAFSTSSFHT				MER5
6	-				MSP23

FIG.2A

Consensus #1
Majority

... T A V G . F K L G K Y . . V . . F F Y
F K A T A V V - D G E F K E L S L S D Y K G K Y V V F F F Y

100 110 120

88 W E G T A V I - D G E F K E L K I T D Y R G K Y L V F F F Y NKEF C
15 F K A T A V M P D G Q F K D I S L S D Y R G K Y V V F F F Y NKEF A
15 F K A T A V V - D G A F K E V K L S D Y K G K Y V L F F F Y NKEF B
73 F K G T A V V - N G E F K E L S L D D F K G K Y L L F F F Y MER5
15 F K A T A V M P D G Q F K D I S L S E Y K G K Y V V F F F Y MSP23

Consensus #1
Majority

... S V D S . F . H L A W . N I P G G L G I . L . L
G A S V D S H F C H L A W I N T P R K Q G G L G P M N I P L

130 140 150

117 P L D F T F V C P T E I I A F F V . .
P L D F T F V C P T E I I A F S D R A E E F K K L N C E V V
P L D F T F V C P T E I I A F G D R L E E F F R S I N T E V V NKEF C
45 P L D F T F V C P T E I I A F S D R A E E F K K L N C Q V I NKEF A
44 P L D F T F V C P T E I I A F S N R A E D F R K L G C E V L NKEF B
102 P L D F T F V C P T E I I A F S O K A N E F H D V N C E V V MER5
45 P L D F T F V C P T E I I A F S D R A D E F K K L N C Q V I MSP23

Consensus #1
Majority

... S V D S . F . H L A W . N I P G G L G I . L . L
G A S V D S H F C H L A W I N T P R K Q G G L G P M N I P L

160 170 180

147 A C S V D S Q F T H L A W I N T P R R Q G G L G P I R I P L NKEF C
75 G A S V D S H F C H L A W V N T P K K Q G G L G P M N I P L NKEF A
74 G V S V D S Q F N H L A W I N T P R K E G G L G P L N I P L NKEF B
132 A V S V D S H F S H L A W I N T P R K N G G L G H M N I T L MER5
75 G A S V D S H F C H L A W I N T P K K Q G G L G P M N I P L MSP23

FIG.2B

Consensus #1
Majority

...D...DYGV...G...RGLFIID
LSDPRTISQDYGVLKADEGIALRGLFIID

190 200 210
LSDLT HQISKDYGVYLEDSCHT RGLFIID
VSDPKRTIAADYGVLKADEGISTFRGLFIID
LGIVTRRLSEDYGVLTDEGIA YRGLFIID
LSDITKQISRQDYGVLESA GIALRGLFIID
ISDPKRTIAQDYGVLKADEGISFRGLFIID

NKEF C
NKEF A
NKEF B
MER5
MSP23

Consensus #1
Majority

...D...ND.P...RSV.E...RLV.AFQ
DKGILRQITIVNDLPVGRSVDEITRLVQAFQ

220 230 240
DKGILRQITILNDLPVGRSVDEITRLVQAFQ
DKGILRQITIVNDPCCRSVDEITRLVQAFQ
GKGVLRQITIVNDLPVGRSVDEALRLVQAFQ
PNGVVKHLSVNDLPVGRSVDEITRLVQAFQ
DKGILRQITILNDLPVGRSVDEITRLVQAFQ

NKEF C
NKEF A
NKEF B
MER5
MSP23

Consensus #1
Majority

...HGEVCPA.W.P.S.II.P.....Y
FTDKHGEVCPAGWKPGSDTIKPDVXKSKEY

250 260 270
YTDKHGEVCPAGWKPGSEITII PDPA GKLKY
YTDKHGEVCPAGWKPGSDTIKPDVPKTKEY
YTDKHGEVCPAGWKPGSDTIKPNVDDSKKEY
FVET HGEVCPANMTPE SPTIKPSPTASKEY
FTDKHGEVCPAGWKPGSDTIKPDVN KSKKEY

NKEF C
NKEF A
NKEF B
MER5
MSP23

FIG.2C

	F . K . . .
	F S K - Q K
267	F D K L N .
195	F S K - Q K
194	F S K - H N
252	F E K V H Q
195	F S K - Q K

Consensus #1
Majority

NKEF C
NKEF A
NKEF B
MER5
MSP23

FIG.2D

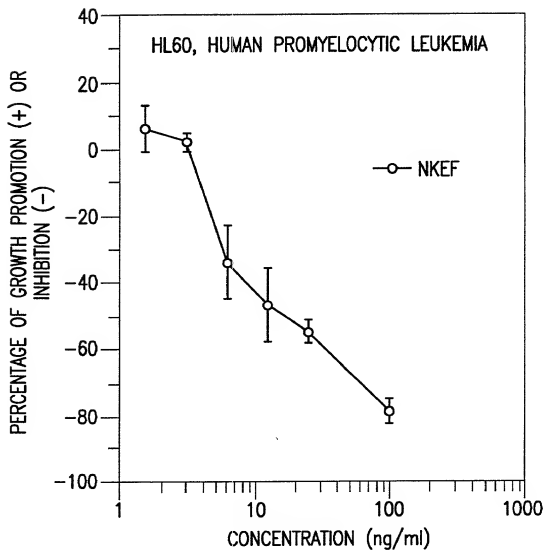


FIG.3

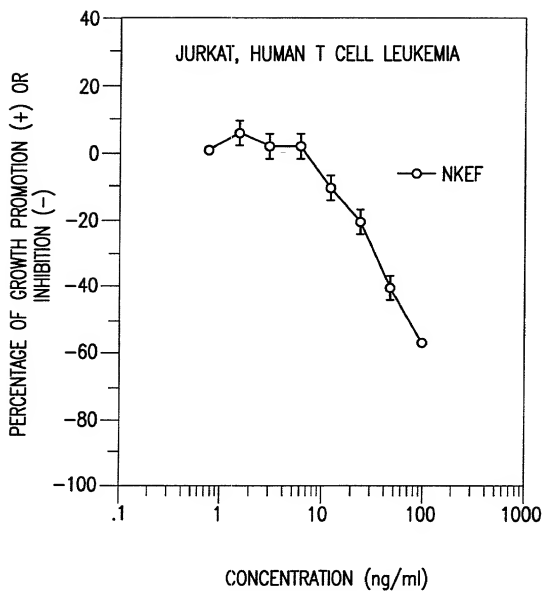


FIG.4

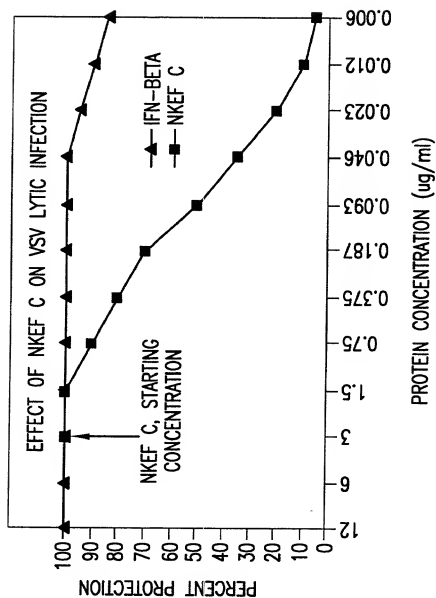


FIG.5